

WASH Health Facility Data Exchange (WHdx)

Draft Data Standard

October 2022

Below are the WHdx parameters, each with a description, format, and standard response options from common survey tools like the JMP and WASH FIT. Note that while standard responses are provided, responses from other survey and monitoring tools are welcome. Keep in mind however that the goal is to create a standardized data repository.

ADMINISTRATIVE

Required Fields:

1. **Country (#country_id)**
 - **Country (#country_id)**
Description: Select the ISO two letter country classification code.
Format: Two letter code (e.g., ET)
2. **Date of Data Inventory (#report_date)**
 - **Date of Data Inventory (#report_date)**
Description: Provide the date that the data was collected using ISO 8601. Time and time zone designators are optional.
Format: YYYY-MM-DD (2015-08-23) or HH:MM:SS+Timezone offset (2015-11 04T13:51:00-04)
3. **Latitude (#lat_deg)**
 - **Latitude (#lat_deg)**
Description: Provide the decimal value of the latitude in WGS 1984. At least four decimals (but more are encouraged) should be included. North and East should be noted as positive numbers.
Format: Numbers only, such as 44.475821.
4. **Longitude (#lon_deg)**
 - **Longitude (#lon_deg)**
Description: Provide the decimal value of the longitude in WGS 1984. At least four decimals (but more are encouraged) should be included. North and East should be noted as positive numbers.
Format: Numbers only, such as 73.211954.
5. **Data Source (#source)**
 - **Data Source (#source)**
Description: Provide the name of the organization collecting the data record.
Format: Open Text
6. **Facility Name (#facility)**
 - **Facility Name (#facility)**
Description: Provide the name of the healthcare facility
Format: Open Text - please use official spelling
7. **Healthcare Facility Classification (#HCF_cat)**
 - **Healthcare Facility Classification (#HCF_cat)**
Description: Provide the type of healthcare facility. The data will be used to designate facilities as “hospital” or “non-hospital”.
Format: Open text, category suggestions include: “hospital”, “health center”, “health post”, “dispensary”, “non-hospital”

Optional Fields:

8. Primary Administrative Division (#adm1)

- **Primary Administrative Division (#adm1)**

Description: Provide the name of the primary administrative division. The correct unit can be found at <http://www.statoids.com>. This corresponds to “First Order” and “First Level” administrative units at <http://Geonames.org> and <http://www.gadm.org> respectively.

Format: Open Text

9. Secondary Administrative Division (#adm2)

- **Secondary Administrative Division (#adm2)**

Description: Provide the name of the secondary administrative division. The correct unit can be found at <http://www.statoids.com>. This corresponds to “Second Order” and “Second Level” administrative units at <http://Geonames.org> and <http://www.gadm.org> respectively.

Format: Open Text

10. Facility Code (#fac_code)

- **Facility Code (#fac_code)**

Description: Provide the standardized code for the healthcare facility

Format: Open text

11. Number of outpatients/month (#outpt)

- **Number of outpatients/month (#outpt)**

Description: Provide the average number of outpatients per month seen at this healthcare facility

Format: Numerical

12. Number of inpatients/month (#inpt)

- **Number of inpatients/month (#inpt)**

Description: Provide the average number of inpatients per month seen at this healthcare facility

Format: Numerical

13. Number of deliveries/month (#deliveries)

- **Number of deliveries/month (#beds)**

Description: Provide the average number of deliveries per month seen at this healthcare facility

Format: Numerical

14. Number of beds (#beds)

- **Number of beds (#beds)**

Description: Provide the number of beds at this healthcare facility (adult & pediatric)

Format: Numerical

15. Number of medical staff (#medical_staff)

- **Number of facility medical staff (#medical_staff)**

Description: Provide the number of medical staff (doctors, physician assistants, midwives, community health officers, nurses, pharmacists, laboratory staff, etc.)

WATER

Required Fields:

16. Is water currently available from the main water supply? (#water_avail)

- **Current Water Availability (#water_avail)**

Description: Describe whether water from the main source was available at the time of the survey.

Standard JMP/WASH FIT responses include: Yes; No; Water is available throughout the facility; Water is available from some but not all water points; No water is available

Format: Binary response, i.e. Yes/No, Functional/Not-Functional, etc.

Select One:

17. Is the main water supply improved? (#improved_water)

Note: Responses will be categorized as improved, unimproved, piped and unknown

- **Improved Water Supply (#improved_water)**

Description: Indicate whether the water supply at the facility is improved or unimproved.

Standard response options from WASH FIT include: Improved water supply accessible on premises (within facility buildings); Improved water supply accessible on premises (but outside of facility building); No improved water source accessible on premises

Format: Open Text, see suggested standardized responses above

- **Main Water Supply Type (#water_supply)**

Description: Describe the main water supply. Data will be used to determine whether the water supply is improved.

Standard response options from JMP include: Improved: Piped supply inside the building; Piped supply outside the building; Tube well / Borehole; Protected dug well; Protected spring; Rain water; Tanker truck; Unimproved: Unprotected spring; Unprotected dug well; Surface water (river/dam/lake/pond); Other

Format: Open Text. See suggested categories above per JMP to try to get users to give standard answers.

- **Piped Water Supply (#piped_water)**

Description: Indicate whether the water supply has piped water supply on premises. Data will be used to determine whether the water supply is improved.

Standard response options from WASH FIT include: Improved: Water piped inside the facility to all high-risk wards (maternity, operating room/OR, intensive care/ICU); Water is piped inside but not to all high-risk wards; There is no piped water supply

Format: Open text, see suggested standardized responses above

18. Where is the main water supply located? (#water_location)

Note: Responses will be categorized as on-premises or off-premises

- **Water Source Location (#water_location)**

Description: Describe the location of the water source.

Standard JMP responses include: On premises; Up to 500 m; 500 m or further

Format: Open text

- **Improved Water Supply (#improved_water)**

Description: Indicate whether the water supply at the facility is improved or unimproved.

Standard response options from WASH FIT include: Improved water supply accessible on premises (within facility buildings); Improved water supply accessible on premises (but outside of facility building); No improved water source accessible on premises

Format: Open text

- **Piped Water Supply (#piped_water)**

Description: Indicate whether the water supply has piped water supply on premises. Data will be used to determine whether the water supply is improved.

Standard response options from WASH FIT include: Water piped inside the facility to all high-risk wards (maternity, operating room/OR, intensive care/ICU); Water is piped inside but not to all high-risk wards; There is no piped water supply

Format: Open text

Optional Fields:

19. What is the water supply extraction technology? (#water_tech)

- **Water Point Technology (#water_tech)**

Description: Describe the system being used to transport the water from the source to the point of collection (e.g. Handpump (include manufacturer, i.e. Handpump - Afridev, Handpump - India Mark II, etc.), Kiosk, Tapstand, etc.).

Format: Open text

20. What is the water supply source ? (#water_source)

- **Main Water Supply Type (#water_supply)**

Description: Describe the main water supply. Data will be used to determine whether the water supply is improved.

Standard response options from JMP include: Improved: Piped supply inside the building; Piped supply outside the building; Tube well / Borehole; Protected dug well; Protected spring; Rain water; Tanker truck; Unimproved: Unprotected spring; Unprotected dug well; Surface water (river/dam/lake/pond); Other

Format: Open Text. See suggested categories above per JMP to try to get users to give standard answers.

21. Is water available at the facility at all operating times? (#water_avail_cont)

- **Continual Water Availability (#water_avail_cont)**

Description: Indicate whether water is available at this facility at all operating times

Standard WASH FIT responses include: Water is available 7 days a week, all day, every day; Water is available 4 days/week and/or not the entire day; Water is available fewer than 4 days per week and/or is not available for more than half the day; Yes; No

Format: Open text

22. Is water available throughout the year? (#water_annual)

- **Water Seasonality (#water_annual)**

Description: Indicate whether water is available throughout the year.

Standard WASH FIT responses include: Water is available throughout the year; Water shortages for one to two months; Water shortages for three months or more

Format: Open text

23. Is water of sufficient quantity for all uses? (#water_quan)

- **Water Quantity (#water_quan)**

Description: Indicate whether water is of sufficient quantities for all uses at the facility

Standard WASH FIT responses include: Water is of sufficient quantity for all uses across the whole facility; Water quantity is sufficient for 75% of needs (across all wards and uses); Water quantity less than 75% sufficient

Format: Open text

24. Water Quality Results (#water_qual)

- **Water Quality (#water_qual)**

Description: Describe the water quality testing results

Standard WASH FIT responses include: Drinking water is free of *E.coli* OR low risk according to Sanitary Inspection form; Drinking water has *E.coli* ≤ 10 /100ml OR medium risk according to Sanitary Inspection form; *E.coli* more than >10 /100ml /Do not know if *E.coli* present /do not have capacity to test /no drinking-water available OR high risk according to SI form

Format: Open text

25. Is the drinking water treated with chlorine?(#water_treatment1)

- **Water Treatment (#water_treatment1)**

Description: Indicate quality of drinking water treatment with chlorine

Standard WASH FIT responses include: Drinking water is available with the appropriate free chlorine residual; Free chlorine residual exists, but is <0.2 mg/L; Do not

know residual/do not have capacity to test residual/no drinking-water available

Format: Open text

26. How is the piped water treated? (#water_treatment2)

- **Piped Water Treatment (#water_treatment2)**

Description: Describe piped water treatment

Standard WASH FIT responses: Water is treated and regulated through a piped service or water is treated regularly with a proven technology; Water is treated with a proven technology but not regularly; Water is not treated or treated with a technology that does not meet WHO standards

Format: Open text

SANITATION

Required Fields:

27. Are usable toilets available on premises? (#usable_toilets)

- **Usable toilets (#usable_toilets)**

Description: Indicate whether there is at least one usable toilet (available, functional, private).

Standard JMP/WASH FIT responses include: Yes; No; All patient toilets are available and usable; Some but not all patient toilets are available and usable; None of the patient toilets are available or usable

Format: Open text

28. Is there at least one improved toilet dedicated for staff? (#staff_toilet)

- **Staff Toilet (#staff_toilet)**

Description: Indicate whether at least one of the improved toilets is designated for staff.

Standard JMP/WASH FIT responses include: Yes; No; At least one functional toilet exists for staff use and is clearly separated/labeled; Toilet exists for staff use, but toilet is not clearly separated/labeled or functional; No separate toilet exists for staff use, or toilets are unimproved

Format: Open text

29. Are toilets sex-separated (or gender-neutral)? (#gender_toilets)

- **Sex-separated Toilets (#gender_toilets)**

Description: Indicate whether improved toilets are sex-separated or gender-neutral rooms.

Standard JMP/WASH FIT responses include: Yes; No; Separate toilets for male/female use exist and are clearly labeled (and provide privacy for users); Separate toilets exist but not clearly labeled; No separate toilets exist and no privacy in other toilets or toilets are unimproved

Format: Open text

30. Does at least one toilet have menstrual hygiene management facilities? (#MHM)

- **Menstrual Hygiene Management Facilities (#MHM)**

Description: Indicate whether improved toilets have menstrual hygiene management facilities.

Standard JMP/WASH FIT responses include: Yes; No; One or more usable toilets caters for MHM; There is space for women to wash but no water available, toilet is not clean/ in disrepair or bin for disposal of waste is available but full; No MHM facilities are available or facilities are available but toilet is not usable or toilets are unimproved

Format: Open text

31. Does at least one toilet meet the needs of people with reduced mobility? (#access_toilet)

- **Accessible Toilets (#access_toilet)**

Description: Indicate whether there is at least one improved toilet that is accessible to people with limited/reduced mobility.

Standard JMP/WASH FIT responses include: Yes; No; One or more functional toilet meets need of people with reduced mobility; Toilet meets needs of people with reduced mobility but is not functional or toilet is functional but only partially meets needs of people with reduced mobility; No toilets for disabled users or toilets are unimproved
Format: Open text

Select One:

32. Are improved toilets available for patients? (#improved_toilets)

- **Sufficient Improved Toilets (#improved_toilets)**
Description: Indicate whether there are sufficient improved toilets for patients at the facility. This data will be used to determine if there are improved toilets on premises.
Standard WASH FIT responses include: Two or more improved toilets for outpatients plus one per 20 users/ inpatients; Requirement is met for outpatients or inpatients, but not both; Neither inpatient or outpatient has sufficient number of toilets or existing toilets are not improved
Format: Open text, see suggested standardized responses above
- **Type of Toilets (#toilets_type)**
Description: Indicate the most common type of toilet available for patients at the facility. This data will be used to determine if there are improved toilets on premises.
Standard response options from JMP include: flush / pour-flush toilet to sewer connection; flush / pour-flush toilet to tank or pit; pit latrine with slab; composting toilet; flush / pour-flush toilet to open drain; pit latrine without slab/open pit; bucket; hanging toilet/latrine; no toilet/latrine; other
Format: Open text

Optional Fields:

33. What is the primary type of toilets/latrines at the facility for patients? (#toilets_tech)

- **Type of Toilets (#toilets_type)**
Description: Indicate the most common type of toilet available for patients at the facility. This data will be used to determine if there are improved toilets on premises.
Standard response options from JMP include: flush / pour-flush toilet to sewer connection; flush / pour-flush toilet to tank or pit; pit latrine with slab; composting toilet; flush / pour-flush toilet to open drain; pit latrine without slab/open pit; bucket; hanging toilet/latrine; no toilet/latrine; other
Format: Open text

HAND HYGIENE

Required Fields:

34. Are hand hygiene facilities with appropriate resources available at points of care? (#hh_poc)

- **Hand Hygiene – Points of Care (#hh_poc)**
Description: Indicate whether there are functional hand hygiene facilities at points of care.
Standard JMP/WASH FIT responses include: Yes; No, there are hand hygiene facilities at points of care but not functional, or lacking soap and water or alcohol-based hand rub; No, no hand hygiene facilities at points of care; No, no hand hygiene facilities at the health care facility; All points of care have functioning hand hygiene (either water and soap or alcohol handrub solution); At least 75% of points of care have functioning hand hygiene stations present; Fewer than 75% of points of care have functioning hand hygiene stations present
Format: Open text

35. Are hand washing facilities with appropriate resources available within 5 meters of toilets? (#hw_toilets)

- **Hand Washing – Toilets (#hw_toilets)**

Description: Indicate whether there are functional handwashing facilities within 5 meters of toilets.

Standard JMP/WASH FIT responses include: Yes; No, there are handwashing facilities near the toilets but lacking soap and/or water; No, no handwashing facilities near toilets (within 5 meters); All toilets have functional hand washing stations within 5 metres; At least 50% of toilets have functioning hand washing stations within 5 metres; Fewer than 50% of toilets have functioning hand washing stations within 5 metres

Format: Open text

Optional Fields:

36. Is alcohol-based hand sanitizer available at points of care? (#abhr)

- **Alcohol-Based Hand Sanitizer (#abhr)**

Description: Indicate whether alcohol-based hand sanitizer is available at points of care.

Format: Open text

WASTE MANAGEMENT

Required Fields:

37. Is waste correctly segregated in patient care areas? (#waste_seg)

- **Waste Segregation (#waste_seg)**

Description: Indicate whether proper healthcare waste segregation takes place within the wards.

Standard JMP/WASH FIT responses include: Yes, waste is segregated into three labeled bins; No, bins are present but do not meet all requirements or waste is not correctly segregated; No, bins are not present; Waste is correctly segregated at all waste generation points; More than 75% of bins have the correct waste; Less than 75% of bins are used for the correct waste

Format: Open text

Either/Or:

38. Is infectious waste safely managed? (#infect_waste)

- **Infectious Waste (#infect_waste)**

Description: Indicate how infectious waste is typically treated and disposed

Standard JMP responses include: Autoclaved; Incinerated (two chamber, 850-1000 °C incinerator); Incinerated (other); Burning in a protected pit; Not treated, but buried in lined, protected pit; Not treated, but collected for medical waste disposal off-site; Open dumping without treatment; Open burning; Not treated and added to general waste; Other (specify)

Format: Open text

39. Is sharps waste safely managed? (#sharps)

- **Sharps Waste (#sharps)**

Description: Indicate how sharps waste is typically treated and disposed

Standard JMP responses include: Autoclaved; Incinerated (two chamber, 850-1000 °C incinerator); Incinerated (other); Burning in a protected pit; Not treated, but buried in lined, protected pit; Not treated, but collected for medical waste disposal off-site; Open dumping without treatment; Open burning; Not treated and added to general waste; Other (specify)

Format: Open text

OR

33/34. Is infectious and sharps waste safely managed? (#infect_waste) & (#sharps)

- **On-site Waste Treatment (#waste_onsite)**

Description: Describe on-site waste treatment technology

Standard WASH FIT responses include: Technology is built to appropriate standards, well-maintained, functional and of sufficient capacity; Technology is either not built to correct standards or not of sufficient capacity; Technology is not functional and not of sufficient capacity

Format: Open text

- **Off-site Waste Treatment (#waste_offsite)**

Description: Describe off-site waste treatment process

Standard WASH FIT responses include: Waste collected regularly and safely and sent to appropriate treatment facility; Waste collected regularly and safely but treatment facility has not been verified; Waste not collected safely or regularly nor sent to an appropriate or licensed facility

Format: Open text

ENVIRONMENTAL CLEANING

Required Fields:

40. Are cleaning protocols available? (#clean_protocols)

- **Cleaning Protocols (#clean_protocols)**

Description: Indicate whether environmental cleaning policies or protocols are available at the healthcare facility.

Standard JMP/WASH FIT responses include: Yes; No; Cleaning policy or protocol exists, is implemented and monitored; Cleaning policy or protocol exists but is not implemented or monitored; No cleaning policy or protocol exists

Format: Open text

41. Have staff with cleaning responsibilities been trained? (#cleaner_training)

- **Cleaner Training (#cleaner_training)**

Description: Indicate whether all cleaners at the facility have been trained

Standard JMP/WASH FIT responses include: Yes, all have been trained; No, some but not all have been trained; No, none have been trained; No, there are no staff responsible for cleaning; All staff responsible for cleaning have received training; Some but not all staff have received training; No staff have received training

Format: Open text

Optional Fields:

42. Are there sufficient cleaners? (#cleaners)

- **Sufficient Cleaners (#cleaners)**

Description: Indicate whether the facility has sufficient number of cleaners

Standard WASH FIT responses include: Required number of staff available at all times when needed and have dedicated time for performing cleaning activities; Some staff available but not sufficient number, not at all times when needed, or not in all wards; No cleaning staff available

Format: Open text

OTHER

Optional Fields:

43. Is there a budget available for WASH activities and personnel? (#budget)

- **Operations Budget (#budget)**

Description: Describe the available budget for cleaners and maintenance staff,

IPC/WASH training, IPC/WASH consumables (e.g. soap, chlorine) and all activities listed in the procurement protocol.

Standard WASH FIT responses include: Budget exists and addresses staff/training and consumables/O&M; Budget exists for staff but not training / or for consumables but not O&M / or budget not sufficient to cover all costs; No budget exists

Format: Open text

44. Does the facility have a functional electrical source? (#elec_source)

- **Electricity Source (#elec_source)**

Description: Indicate whether the facility has a functional and well-maintained electricity source

Standard WASH FIT responses include: Electricity source exists, is functional and well-maintained; Yes, exists but not currently functional; No electricity exists

Format: Open text

45. Is energy sufficient for all electrical needs of the facility? (#suff_elec)

- **Sufficient Electricity (#suff_elec)**

Description: Indicate whether there is sufficient electricity to meet all the facility's electrical needs

Standard WASH FIT responses include: Energy of sufficient quantity at all times; Energy is sufficient to meet some but not all demand; No energy available

Format: Open text

46. Is the delivery room adequately lit? (#dl_light)

- **Delivery Room Lighting (#dl_light)**

Description: Indicate whether the delivery room is adequately lit, including at night

Standard WASH FIT responses include: Delivery room(s) has functioning lighting; Lighting infrastructure exists, but not functioning; Not adequately lit or no lighting infrastructure

Format: Open text

47. Photo (#photo)

- **Photo (#photo)**

Description: Upload a photo of water, sanitation, hygiene, waste management

Format: Provide the URL of a photograph of the water system. Multiple URLs can be included, with each URL separated by a semi-colon (;). Format: URL of Photograph, starting with http://